10/562071

## IAP20 Rec'd To 2.2 DEC 2005 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : (To Be Assigned) Confirmation : (TBA) PCT/JP2004/010315 No.

First Named Inventor : Yoshitaka SUGAWARA
Filed : December 22, 2005
TC/A.U. : (To Be Assigned)
Examiner : (To Be Assigned)
Docket No. : 102253.57240US

Customer No. : 23911

Title : High-Heat-Resistant Semiconductor Device

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R § 1.97 AND 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, the attached Form PTO-1449 lists documents which the Examiner may deem relevant to patentability of the claims of the above-identified application.

## I. <u>Time Period of Submission</u>

This Information Disclosure Statement is submitted:

Description on later than three months from the application's filing date or 2) before the mailing date of the first Office Action on the merits (whichever is later) or 3) before a first Office Action after the filing of a Request for Continued Examination, and therefore no statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R.§ 1.17(p) is required.
2) after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action, a Notice of Allowance, or an action closing prosecution (Exparte Quayle), (whichever is earlier), and therefore Applicant is filing concurrently herewith:
a Statement under 37 C.F.R. § 1.97(e); or
a fee in the amount of \$180.00 under 37 C.F.R. § 1.17(p).
after either a Final Office Action or a Notice of Allowance, but before payment of the Issue Fee, and therefore Applicant is submitting herewith:

a Statement under 37 C.F.R. § 1.97(e); and

a fee in the amount of \$180.00 under 37 C.F.R. § 1.17(p).

II.	Statement Under 37 C.F.R. § 1.97(e)
foreig	I hereby state that each item of information contained in this mation Disclosure Statement was first cited in any communication from a spatent office in a counterpart foreign application not more than three hs prior to the filing of this Information Disclosure Statement; or
paten makii Inform C.F.R	I hereby state that no item of information contained in this mation Disclosure Statement was cited in a communication from a foreign at office in a counterpart foreign application, and, to my knowledge aftering a reasonable inquiry, no item of information contained in this mation Disclosure Statement was known to any individual designated in 37 R. § 1.56(c) more than three months prior to the filing of this Information osure Statement.
III.	Submission of Non-English Language Documents
Engli	The following is a concise explanation of relevance of the nonish language documents listed in the attached Form PTO-1449:
	$\boxtimes$ The relevance of document(s) <u>AA-AB &amp; AF</u> to the subject er of the present invention is/are provided in the specification of the above-tified application.
in E	Corresponding foreign or international report(s) citing ment(s) <u>AC-AE</u> , together with an English-language version(s) (if not already nglish) of that portion of the report(s) indicating the degree of relevance d by the foreign office(s) is/are submitted.
docu	English language family member publication(s) of ment(s) is/are noted on Form PTO-1449.
AA-A	English language abstract(s) is/are submitted for document(s) $\Delta E$ .
	English translation(s) of the foreign language document(s) is/are submitted herewith.
	Applicant submits the following explanations

IV. Continuations/Divisionals/PCT National Stage Applications

Attorney Docket No. 102253.57240US

Attorney Docket No. 102255.5724005
William William 22 DEC 2005
Documents were of record in parent application Serial No.
filed , from which this application claims benefit. As
provided in 37 C.F.R. §1.98(d), copies of the documents are not being provided
since they were previously submitted to or cited by the United States Patent and
Trademark Office in the afore-mentioned parent application.
Copies of document(s) <u>AC-AE</u> listed on the attached form PTO-1449 have already been provided by the International Searching Authority, therefore, duplicate copies are not attached hereto.
The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.
If necessary, this paper should be considered as an authorization to charge Deposit Account 05-1323, Attorney Docket No.: 102253.57240US, for the fee set forth in 37 C.F.R. § 1.17(p).

Respectfully submitted,

December 22, 2005

J/D/Evans

Registration No. 26,269

CROWELL & MORING LLP Intellectual Property Group P.O. Box 14300 Washington, DC 20044-4300 Telephone No.: (202) 624-2500 Facsimile No.: (202) 628-8844

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Complete if Known Substitute for form 1449A/PTO (To Be Assigned) **Application Number** INFORMATION DISCLOSURE December 22, 2005 6 Filing Date Yoshitaka SUGAWARA STATEMENT BY APPLICANT First Named Inventor (To Be Assigned) **Art Unit Examiner Name** (To Be Assigned) (use as many sheets as necessary) 102253.57240US **Attorney Docket Number** 2 of Sheet

U.S. PATENT DOCUMENTS					
Examiner Initials'	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		FOREIG	N PATENT DOC	CUMENTS		
Examiner	Cite	Foreign Patent Document  Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5</sup> (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	<del>,</del> L <sub>6</sub>
Initials'	No.1		MM-DD-YYYY		, Appear	ABS
	AA	JP 3409507 B2	03/20/2003	SHIN ETSU CHEM. CO., LTD.		
	AB	JP 3395456 B2	02/07/2003	SHIN ETSU CHEM. CO., LTD.		ABS
	AC	JP 57-131250 A	08/14/1982	FUJITSU LTD.		
	AD	JP 05-152361 A	06/18/1993	SANYO ELECTRIC CO., LTD.		
	AE	JP 2002-324920 A	11/08/2002	KANEGAFUCHI CHEM. IND. CO., LTD.; NICHIA CHEM IND. LTD.		

Everines	Date
Examiner	Considered
Signature	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (08-03)

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Substitute for form 1449B/PTO  INFORMATION DISCLOSURE  STATEMENT BY APPLICANT				Complete if Known		
				Application Number	(To Be Assigned))PCT/JP2004/010315	
			RE	Filing Date	December 22, 2005	
				First Named Inventor	Yoshitaka SUGAWARA	
(use as many sheets as necessary)				Art Unit	(To Be Assigned)	
				Examiner Name	(To Be Assigned)	
Sheet	2	of	2	Attorney Docket Number	102253.57240US	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	AF	Y. SUGAWARA, ET AL., "12-19kV 4H-SiC Pin Diodes With Low Power Loss", Proceedings of 2001 International Symposium on Power Semiconductor Devices & IC's, (2001) pp. 27-30	
	AG	International Search Report Dated November 02, 2004 W/ Partial English Translation (Three (3) Pages)	
			***
Examiner Signature		Date Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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